Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	2	(bitmap record) near3 (track$3 updat$3 chang$3) with mirror$3 same (asynchronous adj mirror$3)	US-PGPUB; USPAT; USOCR; DERWENT ; IBM_TDB	OR	ON	2005/11/22 11:24
L5	3	(bitmap record) near3 (track$3 updat$3 chang$3) same (asynchronous adj mirror$3)	US-PGPUB; USPAT; USOCR; DERWENT ; IBM_TDB	OR	ON	2005/11/22 11:25
L6	5	(bitmap record) near3 (track$3 updat$3 chang$3) same (asynchronous near2 mirror$3)	US-PGPUB; USPAT; USOCR; DERWENT ; IBM_TDB	OR	ON	2005/11/22 11:26
L7	39	(bitmap record) near4 (track$3 updat$3 chang$3) and (asynchronous near2 mirror$3)	US-PGPUB; USPAT; USOCR; DERWENT ; IBM_TDB	OR	ON	2005/11/22 16:27
L8	37	(flag tag bit field) near3 (track$3 updat$3 chang$3 modif$3 dirty) and (asynchronous near2 mirror$3)	US-PGPUB; USPAT; USOCR; DERWENT ; IBM_TDB	OR	ON	2005/11/22 12:10
L9	19	8 not 7	US-PGPUB; USPAT; USOCR; DERWENT ; IBM_TDB	OR	ON	2005/11/22 12:10
L10	0	("2005/0203972").URPN.	USPAT	OR	ON	2005/11/22 12:11
L11	0	("2005/0203972").URPN.	USPAT	OR	ON	2005/11/22 12:11
L12	2	("6772303").PN.	US-PGPUB; USPAT; USOCR; DERWENT ; IBM_TDB	OR	OFF	2005/11/22 16:25
L14	8	bitmap same (asynchronous near2 mirror$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/11/22 17:05
L15	10	(field record) same (asynchronous near2 mirror$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/11/22 17:06
L16	8	15 not 14	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/11/22 17:30

L17	9433	symmetri$3 near3 mirror$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 17:32
L18	1438	711/161,162.ccls.	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2005/11/22 17:32
L19	7	L18 and 17	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 17:43
L20	800	symmetrical adj mirror$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 17:43
L21	1	20 and 18	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 17:44
L22	24	(bitmap record) and 20	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 18:01
L23	3	bitmap and 20	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 18:02
L24	3	copy near3 (first adj update) with (second adj update)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/22 18:04
L25	2	("20030061240").PN.	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	OFF	2005/11/22 18:43
S1	2	("6732124").PN.	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	OFF	2005/11/21 19:50
S2	133	(bitmap record) near3 (updat$3 chang$3) with mirror$3	US-PGPUB; USPAT; USOCR; DERWENT; IBM_TDB	OR	ON	2005/11/22 11:20

S3	1438	711/161,162.ccls.	US-PGPUB; USPAT; USOCR; DERWENT ; IBM_TDB	OR	ON	2005/11/21 19:54
S4	23	S2 and S3	US-PGPUB; USPAT; USOCR; DERWENT ; IBM_TDB	OR	ON	2005/11/22 11:20

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2	INZZ	BITMAP AND ASYNCHRONOUS AND MIRROR	6 months	0	-
3	INZZ	RECORD AND BITMAP AND MIRROR$3	6 months	0	-
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#2	((asynchronous<in>metadata) <and> (mirror<in>metadata))
#3	(yakovlev a.<in>au)
#4	((asynchronous<in>metadata) <and> (mirror<in>metadata))
#5	((record<in>metadata) <and> (asynchronous<in>metadata)) <and> (mirroring<in>metadata)
#6	((record<in>metadata) <and> (asynchronous<in>metadata)) <and> (mirroring<in>metadata)
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1 Ext3cow: a time-shifting file system for regulatory compliance

Zachary Peterson, Randal Burns
May 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 2
Publisher: ACM Press
Full text available: pdf(443.01 KB) Additional Information: full citation, abstract, references, index terms

The ext3cow file system, built on the popular ext3 file system, provides an open-source file versioning and snapshot platform for compliance with the versioning and audtitability requirements of recent electronic record retention legislation. Ext3cow provides a *time-shifting* interface that permits a real-time and continuous view of data in the past. Time-shifting does not pollute the file system namespace nor require snapshots to be mounted as a separate file system. Further, ext3cow is i ...

Keywords: Versioning file systems, copy-on-write

2 MIL primitives for querying a fragmented world

Peter A. Boncz, Martin L. Kersten
October 1999 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 Issue 2
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(261.36 KB) Additional Information: full citation, abstract, citings, index terms

In query-intensive database application areas, like decision support and data mining, systems that use vertical fragmentation have a significant performance advantage. In order to support relational or object oriented applications on top of such a fragmented data model, a flexible yet powerful intermediate language is needed. This problem has been successfully tackled in Monet, a modern extensible database kernel developed by our group. We focus on the design choices made in the Monet interprete ...

Keywords: Database systems, Main-memory techniques, Query languages, Query optimization, Vertical fragmentation

3 Proceedings - only: An algorithm for stabilising multiple stores

Ewa Z. Bem, John Rosenberg
September 2000 **Proceedings of the 9th workshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating system**

Publisher: ACM Press
Full text available: pdf(237.16 KB) Additional Information: full citation, abstract, references

The algorithm for stabilising multiple stores, which we present in this paper, was developed in the process of designing the global stability and resilience mechanism for Grasshopper, an operating system explicitly designed for experimentation in persistence. Grasshopper's persistent store is divided into multiple logical partitions (local stores) with arbitrary data interdependencies. A global asynchronous checkpoint mechanism is used to ensure the resilience of the store as a whole. In order t ...

Keywords: fault tolerance, global checkpoint, multiple stores, persistence, stability

4 Workshop on object-oriented programming ECOOP 1987, Paris, June 18, 1987

January 1988 **ACM SIGPLAN Notices**, Volume 23 Issue 1
Publisher: ACM Press
Full text available: pdf(1.22 MB) Additional Information: full citation, citings, index terms

5 Principled design of the modern Web architecture

Roy T. Fielding, Richard N. Taylor
May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2
Publisher: ACM Press
Full text available: pdf(335.47 KB) Additional Information: full citation, abstract, references, citings, index terms

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

Keywords: Network-based applications, REST, World Wide Web

6 Virtual machine monitors: Xen and the art of virtualization

Paul Barham, Boris Dragovic, Keir Fraser, Steven Hand, Tim Harris, Alex Ho, Rolf Neugebauer, Ian Pratt, Andrew Warfield
October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**
Publisher: ACM Press
Full text available: pdf(168.76 KB) Additional Information: full citation, abstract, references, citings, index terms

Numerous systems have been designed which use virtualization to subdivide the ample resources of a modern computer. Some require specialized hardware, or cannot support commodity operating systems. Some target 100% binary compatibility at the expense of performance. Others sacrifice security or functionality for speed. Few offer resource isolation or performance guarantees; most provide only best-effort provisioning, risking denial of service.This paper presents Xen, an x86 virtual machine monit ...

Keywords: hypervisors, paravirtualization, virtual machine monitors

7 The shape of things to come

Andries van Dam
February 1998 **ACM SIGGRAPH Computer Graphics**, Volume 32 Issue 1
Publisher: ACM Press
Full text available: pdf(847.52 KB) Additional Information: full citation, index terms

8 Hardware-Based Ray Casting for Tetrahedral Meshes
Manfred Weiler, Martin Kraus, Markus Merz, Thomas Ertl
October 2003 **Proceedings of the 14th IEEE Visualization 2003 (VIS'03) VIS '03**
Publisher: IEEE Computer Society
Full text available: pdf(273.55 KB) Additional Information: full citation, abstract

We present the first implementation of a volume ray casting algorithm for tetrahedral meshes running on off-the-shelf programmable graphics hardware. Our implementation avoids the memory transfer bottleneck of the graphics bus since the complete mesh data is stored in the local memory of the graphics adapter and all computations, in particular ray traversal and ray integration, are performed by the graphics processing unit. Analogously to other ray casting algorithms, our algorithm does not requ ...

Keywords: ray casting, pixel shading, programmable graphics hardware, cell projection, tetrahedral meshes, unstructured meshes, volume visualization, pre-integrated volume rendering

9 Software architecture of ubiquitous scientific computing environments for mobile platforms
Tzvetan T. Drashansky, Sanjiva Weerawarana, Anupam Joshi, Ranjeewa A. Weerasinghe, Elias N. Houstis
December 1996 **Mobile Networks and Applications**, Volume 1 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: pdf(363.10 KB) Additional Information: full citation, abstract, references, index terms

Recent and anticipated technological advances in wireless computing will permit users to compute ubiquitously, "anywhere" and "any time". However, mobile platforms are unlikely to have the computational resources to solve even moderately complex problems that users routinely solve on static workstations today. In the SciencePad project our aim is to develop "Ubiquitous" Problem Solving Environments (UPSEs) to support mobile aware applications. The objecti ...

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